## INDEX VI TO THE LITERATURE OF AMERICAN ECONOMIC ENTOMOLOGY

#### INDEX VI

TO THE

#### LITERATURE

OF

# AMERICAN ECONOMIC ENTOMOLOGY

January 1, 1935 to December 31, 1939

Compiled by MABEL COLCORD

Edited by E. PORTER FELT

and

STANLEY W. BROMLEY



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American Association of Economic Entomologists
College Park, Mb.

#### INTRODUCTORY

This is a continuation of Indexes I to V of American Economic Entomology, a series continuing the earlier bibliographies by Samuel Henshaw and Nathan Banks. The preceding Indexes were prepared with the cooperation of Dr. L. O. Howard and Dr. C. L. Marlatt, Chiefs of the Bureau of Entomology during the periods when the Indexes were prepared. This Index has been made possible by the cooperation of the late Dr. Lee A. Strong, Chief of the Bureau of Entomology and Plant Quarantine, United States Department of Agriculture, who kindly detailed Miss Mabel Colcord, Librarian of the Bureau, to have charge of the preparation of the manuscript. The final work was completed under the direction of Dr. P. W. Annand. To Miss Colcord and her associates as well as to Dr. Strong the Economic Entomologists of the World are indebted for the compilation of this work.

The Index when turned over to the Editor, October 7, 1941, comprised 3891 manuscript pages. It was necessary, as in preceding Indexes to reduce the size of the volume without seriously impairing its value. The immense number of references made it impracticable to consult every citation and there are doubtless errors of both inclusion and exclusion. There has been a consolidation of references in cases where papers contained notices of many species, especially those of presumably minor economic importance. The Editors have eliminated a number of genera and species of presumable little or no economic importance.

The scope of the Index comprises as in the preceding volume, continental North America, including Alaska, Canada, Mexico and the Panama Canal Zone, and in addition Cuba, Puerto Rico, Hawaii, Guam and some items from the Philippines. Only the better established or well known common names of insects have been retained. Those approved by the Committee on Nomenclature of the American Association of Economic Entomologists have been starred (\*). Anonymous articles in the Agricultural Press have been largely excluded and all in Farm papers under headings with numerous citations. The omission of such literature is indicated by a double dagger (‡), and in some cases citations of official press bulletins or circulars, the more ephemeral literature, have been omitted. Inclusive citations have been limited mostly to papers of three pages or more.

The nature of general works is so well indicated in the title that only a few of the more important subdivisions have been indexed.

The publication of this work was authorized by the American Association of Economic Entomologists (See Journal of Economic Entomology, 34: 133, 1941) and subsequently by action of the Executive Committee in agreement with the Editorial Board, the undersigned was appointed to edit and carry the Index through the press with the cooperation of his associate Dr. Stanley W. Bromley.

E. P. Felt, Editor

### INDEX VI TO THE LITERATURE OF AMERICAN ECONOMIC ENTOMOLOGY

JANUARY I, 1935 TO DECEMBER 31, 1939

Compiled by MABEL COLCORD

Index VI to the Literature of American Economic Entomology for the five-year period January 1, 1935 to December 31, 1939, inclusive, is a continuation of the Banks' Index, 1905-1914, and of the Colcord Indexes, 1915-1934. All of these indexes are modified extensions of the Bibliography of American Economic Entomology, published by the U. S. Department of Agriculture, Division of Entomology (now the Bureau of Entomology and Plant Quarantine), 1889-1905, Pts. I-V by Samuel Henshaw, Pts. VI-VIII, by Nathan Banks.

The plan of the previous indexes has been closely followed. Scientific names of insects and other headings are arranged alphabetically; references are alphabetic by author under the insect names and chronologic under each author. Practically all anonymous articles have been omitted. Authorities for all insect names are included in Index VI for the first time in any index of this series. The scope of Index VI, as of Index V, is the literature of continental North America, including Alaska, Canada, Mexico and the Panama Canal Zone. Some references from Cuba, Guam and the Philippine Islands are also included.

The references have been made as short as possible and should be readily intelligible after reading the following explanation and referring, when necessary, to the list of abbreviations.

"B" indicates bulletin, "C" circular, "R" report, "PB" press bulletin, "TB" technical bulletin, and "M" memoir. Publications of the various agricultural experiment stations are referred to simply by State abbreviation and number of bulletin, circular or report —e.g., "Fla. B. 241" means Florida Agricultural Experiment Station Bulletin 241. "Fla. Ext. B. 59" means Florida Agricultural Extension Service Bulletin 59. The Cornell Agricultural Experiment Station bulletins are referred to as N. Y. (C) B, the Geneva Agricultural Experiment Station bulletins as N. Y. (Gen.) B. The bulletins of the United States Department of Agriculture are "USDA B," the Yearbook articles are "USDA YB," the Farmers' Bulletins are "USDA FB," the Proceedings of the U. S. National Museum are abbreviated to "PUSNM," and the Bulletins of the American Museum of Natural History of New York are "BAMNH."

Usually the words for "State" and "Annual" are omitted in references although in a few instances "St" (State) is retained to avoid possible confusion. The form of reference is that now in general use in scientific publications. The first figure after "B," "R," etc., indicates the number of the bulletin or report. The number in parenthesis is the number in the volume and the number following the colon is the page—e.g., "Fenton, South. Flor. 44(18): 18, 1938," indicates an article by Fenton in the Southern Florist, v. 44, no. 18, p. 18, published in 1938. The number is not usually given unless each number in a given volume is separately paged.

Marginal letters or symbols have the following significance: "n" indicates that the species described is new and that the author is the describer in the absence of other indication; a double dagger (‡) preceding the name of the insect means that some of the presumably less important references have been deleted by the editor: "i" indicates that the article is illustrated; "b" that it contains a bibliography. Starred (\*)

names are those approved by the Committee on Nomenclature of the American Association of Economic Entomologists.

The year of publication has been added to all references as it is often a great help in determining the article wanted—e.g., "N.J.R. 1935" might mean the N. J. Agricultural Experiment Station Report for 1935 published in 1936, or that for 1934 published in 1935. If it is written N.J.R. f. 1935 and 1936 is added at the end of the reference there can be no question as to what is wanted and when it was published.

In indexing a monograph of a family, we have made one reference to the family name and have then indexed new species only, unless information was given on life history, habits or control of the insect. Standard catalogs have been followed in questions of synonymy and all insect names and authorities for same have been checked in the Division of Insect Identification of the U. S. Bureau of Entomology and Plant Quarantine. Advice as to other headings and clerical help in copying the manuscript has been most kindly given by all Divisions of the Bureau. We again had fine cooperation from the Library of the Department of Agriculture which has made it possible for us to see promptly the current material needed for indexing, and to our Bureau Library staff our grateful thanks are due for their interest and devoted service during the long period of compilation.

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#### LIST OF ABBREVIATIONS

Acad. = Academy
Adm. = Administrative
Adv. = Advancement
Advoc. = Advocate

Agr. = Agriculture, Agriculturist, Agri-

cultural
Am. = American
Ann. = Annals, Annual
App. = Appendic
Archiv. = Archives
Assoc. = Asociation
B. = Bulletin

B.C. = British Columbia

Bank. = Banker
Bd. = Board
Bien. = Biennial
Biol. = Biological
Bost. = Boston
Br. = Branch
Bur. = Bureau
C. = Circular

C. when after N.Y. = Cornell C. Gentl. = Country Gentleman

Can. = Canada Clem. = Clemson Coll. = College

Comm. = Commission
Comp. = Comparative
Conf. = Conference

Cong. = Congress
Conserv. = Conservation
Cont. = Contribution
Conv. = Convention
Coop. = Cooperative
Cranb. = Cranberry
Cult. = Cultivator

Dept. = Department
Dermat. = Dermatology
Destr. = Destructive

Cutan. = Cutaneous

Dairym. = Dairyman

Dis. = Disease
Dom. = Dominion
Ec. = Economic
Ecol. = Ecology
Ed. = Education
Elev. = Elevator

Eng. = Engineering

Ent. = Entomologist, Entomology

Exch. = Exchange
Exp. = Experimental
Exterm. = Extermination

Farm. = Farmer Fed. = Federal Fert. = Fertilizer Flor. = Florist For. = Forestry Fr. = Fruit

Fumig. = Fumigation Fung. = Fungicide

Gard. = Cardeners, Gardening

Gaz. = Gazette Gen. = General

Gen. when after N.Y. = Geneva

Gentl. = Gentleman Geog. = Geographic Geol. = Geology Gr. = Grain Grow. = Grower Homest. = Homestead

Hort. = Horticulture, Horticulturist

Hosp. = Hospital

Hyg. = Hygiene, Hygienic

Illus. = Illustrated Impl. = Implement

Indus. = Industrialist, Industry

Infec. = Infectious
Infor. = Information
Inj. = Injurious
Ins. = Insect
Insect. = Insecticide
Insp. = Inspection
J. = Journal
Lab. = Laboratory
Mag. = Magazine
Man. = Manual

Med. = Medicine, Medical

M. = Memoir
Mect. = Meeting
Met. = Metallurgical
Mil. = Military
Mill. = Miller
Mod. = Modern
Month. = Monthly

Mos. = Mosquito
Mus. = Museum

N. Eng. = New England Nat. = National, Naturalist Northw. = Northwestern

Not. = Notice
Nurs. = Nursery
Off. = Official
Ont. = Ontario
Orch. = Orchard
P. = Proceedings
P.B. = Press Bulletin

Pac. = Pacific

Path. = Pathology, Pathological Phytopath. = Phytopathological

Pl. = Plant, Planter
Poly. = Polytechnic
Pom. = Pomological
Pop. = Popular
Poult. = Poultry

Prevent. = Preventive
Proclam = Proclamation

Proclam. = Proclamation Prod. = Producer Prog. = Progressive Prot. = Protection

Pub. = Publication, Public

Quar. = Quarterly
R. = Report
Rec. = Record
Res. = Research
Rev. = Review
Roy. = Royal
Rur. = Rural
Ry. = Railway

Sci. = Science

Sec. = Secretary
Serv. = Service
Sess, = Session
Soc. = Society
So. = South
South. = Southern
Sp. = Special
St. = State
State = Station
State = Station

Statis. = Statistical
Stockm. = Stockman
Sup. = Supplement
Suppr. = Suppression
Supt. = Superintendent

Surg. = Surgical
Surv. = Survey
Syn. = Synopsis
T. = Technical
Trans. = Transactions

Trop. = Tropical
Univ. = University

USDA B = Bulletin U.S. Dept. Agricul-

USDA FB = Farmers Bulletin U.S. Dept. Agriculture

USDA YB = Yearbook U.S. Dept. of

Agriculture
Veg. = Vegetable
Vet. = Veterinary
West. = Western
Wkly. = Weekly

Zool. = Zoology, Zoological

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\*Clover seed chalcid, see Bruchophagus gibbus (Boh.)

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cancer Theob.

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Epistrophe—Key—Revision

iFluke, Ent. Amer. n.s. 15: 1-57, 1935. Epistrophe abruptus Cur., 30, albipunctatus Cur., 45, arctica (Zett.), 41-42: Fluke, Ent. Amer. n.s. 15, 1935. Epistrophe biarcuata Fluke

inFluke, Amer. Mus. Nov. 1941: 4-6,

1937.

Epistrophe bimaculata (Lov.) 35, cherokeenensis (Jones) 47, cinctellus (Zett.) 13, cinctus (Fall.) 14, columbiae Cur., 31, compositarum (Ver.) 45, conjunctus (Osb.) 17, currani Fluke 29, diversifasciatus (Knab.) 15, diversipunctatus Cur., 45, fisherii (Walt.) 44, garretti Cur., 32, geniculatus (Macq.) 42, genualis (Will.) 22, gracilis Cur., 33, grossulariae (Mg.) 8, guttata (Fall.) 38, hunteri Cur., 11, imperialis Cur., 12, insolitus (Osb.) 20, johnsoni Cur. 23, lineola (Zett.) 17, macularis (Zett.) 28, mallochi (Cur.) 26, mediaconstrictus Fluke, 36, mentalis (Will.) 32, nigropilosa Cur., 26, nudifrons Cur., 34, pullullus (Snow) 46, quinquelimbatus (Bigot) 19, rectoides (Cur.) 19, semiinterruptus Fluke, 21, sodalis (Will.)

iFluke, Ent. Amer. n.s. 15: 1935.

Epistrophe spp.

b Telford, Minn. T. B. 140: 28, 1939. Epistrophe subfasciatus (Cur.) 37, submarginalis Cur., 10, tarsatus (Zett.) 24, tenuis (Osb.) 39, terminalis Cur., 9, triangulifer (Zett.) 40, umbellatarum (Fab.) 42, (Ischyrosyrphus) velutinus (Will.) 51, vittafacies (Cur.) 26, xanthostoma Cur., (Ischyrosyrphus) xylotoides (John.) 50.

a Fluke, Ent. Amer. n.s. 15: 1935.

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iWatson & Berger, Fla. Ext. B. 88: 17, 1937.

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27: 308, sierribis 28: 489, zizypha-

gus 28: 420. inKeifer, Cal. Dept. Agr. B. 27, 28, 1938, 1939.

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bMenusan & Butcher, Amer. Potato J. 13: 65<u>,</u> 1936<u>.</u>

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84-94, 1937; 410: 444-447, 1938. iMunro, N.Dak. Ext. Sp. C. Feb. 1939: 48.

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iShropshire & Compton, Ill. C. 437: 15, 1935; rev.: 15, 1937; rev.: 15,

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476: 13, 1935.

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rum 27: 185, calibaccharis 28: 331, caryae 28: 484, ceanothi Keifer 28: 330.

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Eriophyes cladophthirus Nalepa iNeiswander, Ohio Bi-Mo. B. 21: 114, 1936.

Eriophyes dracunculi 28: 333, emarginatae 28: 114, enceliae 28: 226, eriobotryae 27: 188.

inKeifer, Cal. Dept. Agr. B. 27, 28, 1938, 1939.

Eriophyes essigi Hassan (Blackberry mite)

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Eriophyes fici Essig, see Eriophyes ficus Cotte

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Pickett, Pac. Rur. Press 132: 261, 1936.

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Heriot, B.C. Ent. Soc. P. 32: 8-10,

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\*Four-spotted tree cricket, see Oecan-

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Britton, Conn. B. 396: 406, 1937.

casta (Pallas)

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Walsh

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\*Grape seed chalcid, see Evoxysoma vitis (Saund.)

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Great black shore bug, see Saldula major (Prov.)

Great Southern white butterfly, see Ascia monuste (L.)

Great sulphur butterfly, see Phoebis eubule (L.)

Greater bee moth, see Galleria mellonella (L.)

\*Greedy scale, see Aspidiotus camelliae Sign.

Green apple aphis, see Aphis pomi Deg. Green apple bug, see Lygus communis Knight

\*Green-bottle flies, see Lucilia spp.
\*Green bug, see Toxoptera graminum

Green cabbage worm, see Pieris rapae

Green citrus aphid, see Aphis spiraecola Patch

\*Green clover worm, see Plathypena scabra (F.)

Green dragonfly, see Anax junius (Dru.) Green fly, see Myzus persicae (Sulz.)

\*Green fruitworm, see Graptolitha antennata (Walk.)

\*Green-headed spruce sawfly, see Pikonema dimmockii (Cress.)

\*Green June beetle, see Cotinis nitida (L.)

Green leafhopper, see Empoasca fabae (Harr.)

Green maple worm, see Graptolitha antennata (Wlk.)

Green mite, see Paratetranychus viridis (Banks)

\*Green peach aphid, see Myzus persicae (Sulz.)

\*Green rose chafer, see Dichelonyx backi (Kby.).

\*Green scale, see Coccus viridis (Green) \*Green shield scale, see Pulvinaria psidii Mask.

Green soldier bug, see Acrosternum hilaris (Say)

\*Green stinkbug, see Acrosternum hilaris (Say)

Green stonefly, see Chloroperla cydippe (Newm.)

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(Felt)

foliella (Cham.)

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cola (Coq.)

ella (Riley)

dania (Cram.)

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